

Science Toolkit: Grade 6 Objective 2.D.1.a

Student Handout: Science: Grade 6 Objective 2.D.1.a

Standard 2.0 Earth/Space Science

Topic D. Astronomy

Indicator 1. Recognize that objects of our solar system are interrelated.

Objective a. Recognize that Earth and its closest star, the sun, are part of a disk-shape galaxy of stars and that our galaxy is one of billions of galaxies.

Selected Response (SR) Item

Question

Use the information below to answer the following:

The early Greeks are credited with many valid concepts in astronomy. Some of their theories were correct; some were later proven incorrect. One theory was that Earth was the center of the universe and that other planets circled Earth. The Greeks thought Earth did not move because its movement was not obvious from the surface of the planet. The Greeks also believed that an invisible sphere surrounding our planet contained the stars. This sphere rotated, explaining the apparent movement of constellations over time.

The Milky Way galaxy has spiraling arms.



The spiraling arms of the Milky Way galaxy are part of a

- A. large sphere of rotating stars
- B. small sphere of rotating stars
- C. large rotating disk of stars
- D. small rotating disk of stars

Correct Answer

C. large rotating disk of stars

Question

Use the information below to answer the following:

The early Greeks are credited with many valid concepts in astronomy. Some of their theories were correct; some were later proven incorrect. One theory was that Earth was the center of the universe and that other planets circled Earth. The Greeks thought Earth did not move because its movement was not obvious from the surface of the planet. The Greeks also believed that an invisible sphere surrounding our planet contained the stars. This sphere rotated, explaining the apparent movement of constellations over time.

The Milky Way galaxy has spiraling arms.



The spiraling arms of the Milky Way galaxy are part of a

- A. large sphere of rotating stars
- B. small sphere of rotating stars
- C. large rotating disk of stars
- D. small rotating disk of stars